

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number  
**WO 2004/059532 A3**

(51) International Patent Classification<sup>7</sup>: **G06F 17/30**

(21) International Application Number: PCT/GB2003/005641

(22) International Filing Date: 30 December 2003 (30.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 0230271.9 30 December 2002 (30.12.2002) GB

(71) Applicant (for all designated States except US): **BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY [GB/GB]; 81 NEWGATE STREET, LONDON EC1A 7AJ (GB).**

(72) Inventors; and

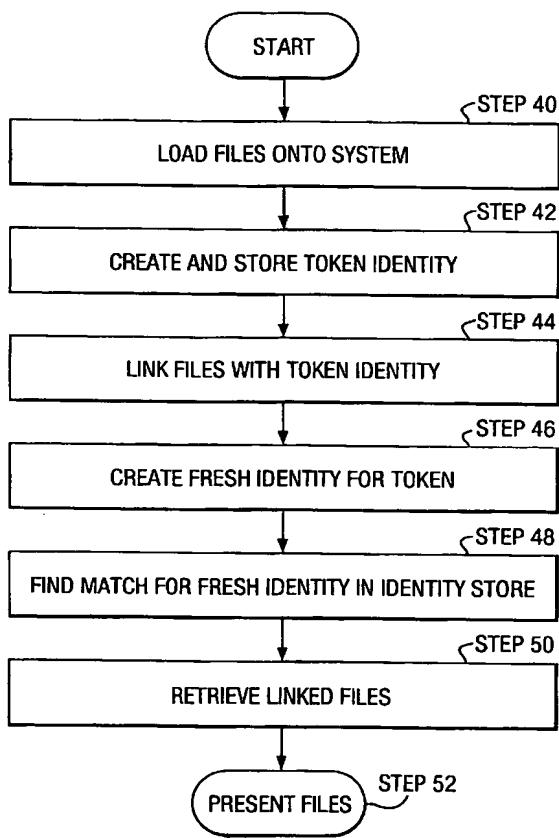
(75) Inventors/Applicants (for US only): **GOWER, Andrew, Peter [GB/GB]; 66A Belstead Road, Ipswich, Suffolk IP2 8BG (GB). TRIMBY, Martin, William [GB/GB]; Town Pightle, Dunwich Lane, Peasenhall, Saxmundham, Suffolk IP17 2JP (GB). SUTTON, Jonathan, Simon [GB/GB]; 36C Princes Street, Ipswich, Suffolk IP4 1RJ (GB).**

(74) Agent: **ROBERTS, Simon, Christopher; BT GROUP LEGAL, Intellectual Property Department, PPC5A, BT Centre, 81 Newgate Street, London EC1A 7AJ (GB).**

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

*[Continued on next page]*

## (54) Title: DATA RETRIEVAL METHOD AND APPARATUS



(57) Abstract: A method to create within a computer system, an association between the appearance of a token and one or more stored files for the purpose of retrieving and presenting said one or more stored files, comprising the steps of: measuring said appearance of said token; creating a token identity from the obtained measurement; storing said token identity in an identity store; associating within said computer system, said stored file with said token identity; subsequently measuring said appearance of said token; creating a subsequent identity for said token using subsequent measurement data obtained from said subsequent measurement; searching in said identity store for a match with said subsequent identity; upon the location of a match, retrieving said one or more stored files; and presenting said retrieved file to a user.



(84) **Designated States (regional):** ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) **Date of publication of the international search report:**  
28 October 2004

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

International Application No

/GB 05641

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 043 698 A (SHARP KK) 11 October 2000 (2000-10-11) abstract, column 16, paragraph 76 – column 17, paragraph 83; figures 1,12,13	1-6,9-16
A		7,8
X	US 2001/040987 A1 (BJORN VANCE C ET AL) 15 November 2001 (2001-11-15) abstract, column 1, paragraph 10 – paragraph 11; figures 2,4,5,6B,13 column 8, paragraph 127 – column 9, paragraph 136	1-6,9-16
A		7,8
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## ° Special categories of cited documents :

- °A° document defining the general state of the art which is not considered to be of particular relevance
- °E° earlier document but published on or after the international filing date
- °L° document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- °O° document referring to an oral disclosure, use, exhibition or other means
- °P° document published prior to the international filing date but later than the priority date claimed

- °T° later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- °X° document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- °Y° document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- °&° document member of the same patent family

Date of the actual completion of the international search

31 August 2004

Date of mailing of the international search report

14/09/2004

## Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL – 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Wienold, N

## INTERNATIONAL SEARCH REPORT

International Application No

/GB 05641

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/22888 A (CASIO COMPUTER CO LTD ; KATSUMURA NORIYOSHI (JP); TAKATSUTO HIROAKI (J) 28 May 1998 (1998-05-28) abstract, page 3, line 10 – page 4, line 15 page 8, line 6 – page 12, line 4 figures 3,4,5A-5B,6,7A-7B	1,5,6,9, 14-16
A	FROHLICH D ET AL: "The Memory Box" PERS. TECHNOL. (UK), PERSONAL TECHNOLOGIES, SPRINGER-VERLAG, vol. 4, no. 4, 2000, pages 238-240, XP002293870 UK ISSN: 0949-2054 cited in the application the whole document	2-4,7,8, 10-13
A	WO 01/61448 A (UNIV MARYLAND ; SHNEIDERMAN BENJAMIN A (US)) 23 August 2001 (2001-08-23) abstract page 6, line 8 – page 10, line 12	1-16
A	EP 1 209 589 A (EASTMAN KODAK CO) 29 May 2002 (2002-05-29) abstract, column 1, line 1 – column 2, line 27 column 5, line 16 – line 29 column 6, line 39 – column 8, line 52; figure 1	1,16
A	WO 02/057959 A (ADOBE SYSTEMS INC) 25 July 2002 (2002-07-25) abstract, page 1, line 3 – page 3, line 20	1-16

**INTERNATIONAL SEARCH REPORT**

International application No

/GB 05641

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 1043698	A 11-10-2000	JP 2000293253 A EP 1043698 A2		20-10-2000 11-10-2000
US 2001040987	A1 15-11-2001	US 6125192 A AU 6669998 A BR 9808950 A CA 2287188 A1 CN 1257595 T EP 0976090 A1 JP 2001521665 T WO 9848371 A1		26-09-2000 13-11-1998 04-09-2001 29-10-1998 21-06-2000 02-02-2000 06-11-2001 29-10-1998
WO 9822888	A 28-05-1998	JP 10149434 A AU 715088 B2 AU 4886997 A CA 2241151 A1 CN 1208483 A ,B EP 0877987 A1 WO 9822888 A1 TW 384436 B US 6424738 B1		02-06-1998 13-01-2000 10-06-1998 28-05-1998 17-02-1999 18-11-1998 28-05-1998 11-03-2000 23-07-2002
WO 0161448	A 23-08-2001	AU 3835401 A WO 0161448 A1 US 2002054059 A1		27-08-2001 23-08-2001 09-05-2002
EP 1209589	A 29-05-2002	US 6629104 B1 EP 1209589 A2 JP 2002202986 A US 2004027624 A1		30-09-2003 29-05-2002 19-07-2002 12-02-2004
WO 02057959	A 25-07-2002	US 2002087546 A1 WO 02057959 A2 US 2003033296 A1		04-07-2002 25-07-2002 13-02-2003